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CONTACT



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TECHNICAL SKILLS

LEADERSHIP & ARCHITECTURE

Tech Leadership • Player-Coach Model
• Legacy Modernization • System Design • Agile (SAFe/Scrum) • Technical Mentoring

FRONTEND & APPS

React (Hooks, Context) • TypeScript • Next.js • Electron • Tailwind CSS • Angular • Responsive Design

BACKEND & SYSTEMS

Node.js (Express/NestJS) • Java (Spring Boot) • Go • Scala • Kafka • RESTful APIs • Microservices

DEVOPS & CLOUD

AWS (ECS, S3, CloudFront, Secrets) • Docker • CI/CD (GitHub Actions, Jenkins) • IaC (Terraform) • Monitoring (Grafana, CloudWatch)

DATA & SECURITY

PostgreSQL • MongoDB • Redis • NoSQL • Snyk / SonarQube • Data Decoupling

AI & INNOVATION

AI Agent Integration • Generative AI APIs • Prompt Engineering • Model Fallback Strategies • AI-Driven Automation

Guillermo Pérez Ruiz

Tech Lead (Hands-On) / Senior Full-Stack Engineer

Senior Engineer & Tech Lead with over 7 years of experience in platform modernization, scalable cloud architectures, and advanced automation. I act as a player-coach, bridging the gap between product strategy and engineering execution through direct implementation of high-impact changes.

PROFESSIONAL EXPERIENCE

Tech Lead (Hands-On) / Senior Full-Stack Engineer 2021 – Present

MAHLE SmartBike Systems | Remote

- Technical Leadership & Strategy: Managed team workflows, led technical decision-making, and aligned product requirements with architectural scalability.
- Legacy Modernization: Transformed a monolithic React/Express application with severe technical debt (no tests, no clear architecture) into a modern, micro-service ready system.
- Cloud Infrastructure: Fully dockerized the environment and migrated all services to AWS ECS (Fargate) with auto-scaling, ALB, and secure IAM policies.
- Frontend Orchestration: Migrated web frontend to S3 + CloudFront, optimizing global delivery, reducing costs and implementing custom WAF rules.
- Advanced CI/CD & Quality: Engineered automated pipelines with branch synchronization, release blocking mechanisms, and security gates using Snyk and SonarQube.
- React Evolution: Executed a zero-downtime progressive migration from Class Components to Hooks and TypeScript, improving development velocity and type safety.
- Data Layer Decoupling: Optimized storage by separating raw location data to S3, session management to Redis, and volatile configurations to MongoDB.
- Electron & Low-Level Hardware: Built and maintain an Electron desktop app for EOL manufacturing, integrating low-level CAN bus/UDS protocols for bike diagnostics.
- Observability & Monitoring: Implemented comprehensive monitoring with Grafana dashboards, CloudWatch alarms and health-check systems.

React Node.js AWS (ECS/S3/ALB/Secrets) TypeScript Redis Docker Electron
CAN bus UDS Grafana

QA-DevOps & Full-Stack Developer / Tech Lead 2020 – 2023

Izertis S.A. (Client: Inditex) | Remote

- Enterprise Automation: Developed mass-analysis scripts to audit thousands of repositories, evaluating technical health across different departments.
- Application Discovery Platform: Headed the development of 'Yellow Pages' (React/Spring Boot), a centralized platform used company-wide to discover and manage services.
- Quality Standardization: Enforced quality gates (SonarQube, Jacoco) and unit test thresholds. Managed the global migration from Bamboo to GitHub Actions.
- Distributed Systems: Integrated real-time data synchronization using Kafka and implemented dedicated search engines for high-performance service discovery.
- Technical Auditing & Mentoring: Conducted periodic audits to ensure compliance with quality standards and provided training on testing and pipeline configuration.

React Spring Boot Kafka GitHub Actions Grafana Go SonarQube Snyk
Jacoco

Cognizant Technology Solutions | International / Valladolid

- Digital Banking Evolution: Developed and modernized banking flows, migrating legacy AngularJS components to modern Angular 4+.
- Microservices Architecture: Designed and implemented high-criticality financial microservices from scratch using Spring Boot and Scala.
- Engineering Excellence: Acted as a technical reference within the squad, conducting rigorous code reviews and implementing SonarQube standards.
- Agile Delivery: Operated within complex Scrum/SAFe frameworks, delivering high-integrity transactional features to thousands of bank customers.
- International Operations: Collaborated daily with distributed teams in Belgium, India, and the Czech Republic in a highly disciplined environment.

Angular Spring Boot Microservices Jenkins Scrum Scala AWS
SonarQube

SELECTED PROJECTS

Adventure Forge

Live

An AI-powered 'choose your own adventure' engine. Built with a high-availability fallback system for LLMs and image generation models, featuring persistent game states and multi-genre support.

Galactic Conquest

In Development

A space-themed procedural deckbuilder roguelike. Utilizes AI to dynamically generate cards, encounters, and world content via modular JSON architectures.